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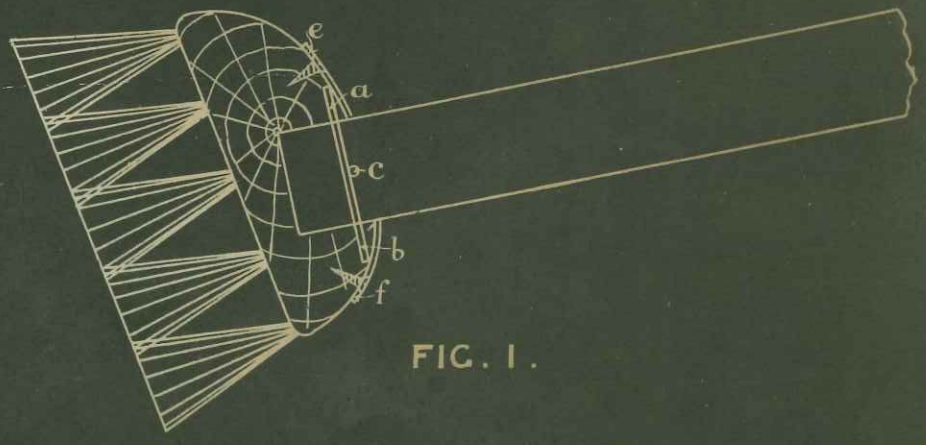

FIG. 1.

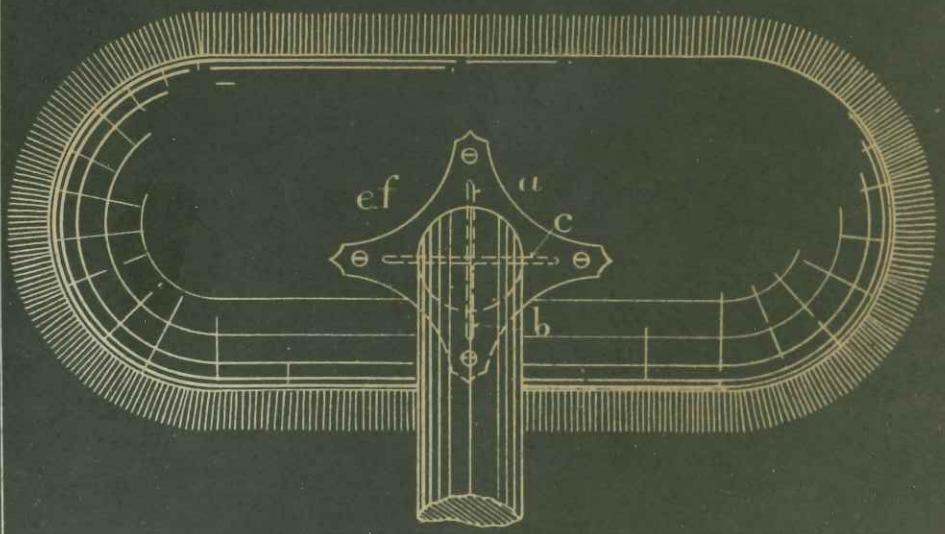

FIG. 2.

[This Drawing is a full-size reproduction of the Original.]

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15/143.1

COMPLETE SPECIFICATION.

Improved Method of Attaching Handles to Brush and Broom Heads.

JOHN EZRA MILLER, Architect and Surveyor, Blackett's Buildings, Sunderland Co. Durham, THOMAS BIRBECK Builder 26 Stanley Street Sunderland Co. Durham do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

Our said invention relates to an improved method of attaching the handles of brushes and brooms to their heads; and is effected in the following manner :—At the bottom end of the handle there are two iron or other suitable pins driven at right angles to each other and also at right angles to the length of the handle. Each end of these pins is allowed to project from the face of the handle about one quarter of an inch, and they are so placed with respect to the bottom of the handle, that when the handle is driven right into the hole in the head of the brush or broom, the pins are sunk into the head flush with its top. Over the handle is fitted a washer made of brass, iron, or other suitable material—which is placed on the top of the pins after the handle has been driven into the head. This washer is secured to the head of the brush or broom by means of four screws, and keeps the handle immovable.

In order that our invention may be more clearly understood, reference is made to the accompanying drawings. Fig. I shows a cross section of the head of a brush or broom, and longitudinal section of the handle, with the pins and washer in their places. *a. b.* and *c.* are the two pins. The washer *e. f.* is shewn to be fitted over the handle and secured to the head by screws, two of which are shewn in this figure : the whole of the four being shewn in Fig. II.

Fig. II is an elevation looking down on the top of the handle and head. It shews the washer in its place, the pins being shewn by dotted lines and are represented by the same letters as in Fig. I *viz. a. b.* and *c.*

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is :—

An improved method of attaching the handles of brushes and brooms to their heads :—Firstly—by two pins being driven through the handle and, Secondly—by a washer being placed over the said pins and screwed to the head, the whole fixed as hereinbefore described, the handle thereby being made immovable.

Dated this 4th day of October 1888.

JOHN EZRA MILLER.
THOMAS BIRBECK.

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1888.